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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,109	11/18/2003	Christopher J. Cookson	3053-064	6117

22440 7590 01/28/2005

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EXAMINER

VUONG, BACH Q

ART UNIT PAPER NUMBER

2653

DATE MAILED: 01/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<p align="center">Office Action Summary</p>	Application No. 10/716,109	Applicant(s) COOKSON ET AL.	
	Examiner Bach Q. Vuong	Art Unit 2653	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/30/04</u> . | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
6) <input type="checkbox"/> Other: _____. |
|---|--|

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Satoh et al. (US 5,253,242).

Satoh et al., according to Figs. 1-8, shows an optical disc player for reading an optical disc comprising all features of the claimed invention as interpreted below:

Regarding claim 1, see Figs. 1-8 which show an optical disc player for reading an optical disc (see double-sided optical disc, 3A and 3B) having a first side and a second side, each side having a respective first data layer, wherein data is arranged on the first side along spiral oriented in a first direction (see 3A in Fig. 7(a)), and wherein data is arranged on the second side along a second spiral oriented in a direction that is opposite the first spiral when viewed on the respective sides (see 3B in Fig. 7(b)), comprising: a first laser head (see optical head 4A) reading data from the first side; a second laser head (see optical head 4B) reading data from the second side; a laser head controller (see linear motor 5 and drive control 9) that controls the movement of the laser heads; and a motor rotating the disc (see motor M).

Regarding claim 2, see Figs. 1-6 which show an optical disc player wherein the disc (see double sided optical disc 1) has two layer on first side and wherein the first laser head reads from data from the two layers on the first side.

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Regarding claim 3, see Figs. 1-12 which show an optical disc player wherein the disc has two layer on each side and the lasers read data from the at least two data layers on each sides (see recording surfaces 3A and 3B).

Regarding claim 4, see Figs. 1-12 which show an optical disc player wherein the laser heads read data (see optical heads 4A, 4B) from the first and second sides substantially simultaneously.

Regarding claim 5, see Figs. 1-12 which show an optical disc player wherein the laser heads (see optical heads 4A and 4B) read data from the first and second sides sequentially.

Regarding claim 6, see Figs. 1-12 which show an optical disc player wherein the laser heads read data from the first and second sides in an alternating fashion.

Regarding claim 7, see Figs. 1-6 which show an optical disc player wherein the disc has a periphery and a hub, each side has a lead-in area disposed adjacent to one of the periphery and the hub and the laser heads are moved first to the lead-in areas to start reading the data on the respective sides (see heads 4A and 4B in Figs. 1 for details).

Regarding claim 8, see Figs. 1-6 which show an optical disc player wherein the disc has included lead-in, lead-out and intermediate areas on each side (note that lead-in, intermediate and lead-out areas are inherently included in a disc structure), and wherein head is moved, respectively, from the lead-in to the intermediate and then the lead-out areas (see heads 4A and 4B for details).

Regarding claim 9, see Figs. 1-6 which show an optical disc player further comprising a buffer collecting data from the laser heads (see buffer memory (RAM-A, RAM-B)).

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Regarding claim 10, see Figs. 1-6 which show an optical disc/player combination comprising: an optical disc including a first side having a respective track with data extending between the hub and the periphery of the disc along a first spiral, and a second side having a respective track with data extending between the hub and the periphery of the disc along a second spiral, wherein the first and second spirals are oriented in opposite direction as viewed from the respective sides (see disc in Figs. 6, 7(a) and 7(b)); and a player including a first laser head (see head 31) reading data from the first side, a second laser head (see head 41) reading data from the second side, a laser head controller (see linear motor 5 and drive control 9) moving the first and second laser heads across the sides and motor rotating the disc in the same direction when the first and second laser heads read data.

Regarding claims 11-13, see Figs. 1, 6, 7(a)-7(b) which show an optical disc/player wherein at least one side includes a top and a bottom layer, each layer having a respective track of data, and data is arranged in sequence starting on one layer of the first and ending on another layer of the second side.

Regarding claim 14, see Figs. 1, 6, 7(a)-7(b) which show an optical disc/player wherein a sequence starts on the top layer of the first side and ends on the top layer of the second side.

Regarding claims 15-18, see Figs. 1-7 which show an optical disc/player combination further comprising a processor (see central processing unit 16) controlling the reading of data from the laser heads; and wherein the processor can read data from the first and the second side in sequence, both sides simultaneously, or alternating fashion from the first and second sides.

Regarding claim 19, see Figs. 1-7 which show a method of reading data from an optical disc having two sides with at least one data layer on each side with data tracks disposed along

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spirals, with the track on one side being disposed along a first spiral oriented in a first direction and the track on the other side being disposed a second spiral oriented in a direction opposite to that of the first direction as viewed from the respective sides (see a disc in Figs. 6, 7(a) and 7(b)), comprising: inserting the disc into a player having a first laser head positioned to read data from the first side and second laser head positioned to read data from the second side (see heads 4A and 4B); rotating the disc (see motor M); and reading data from both sides of the disc with the first and second laser heads while the disc rotates in the same direction (see heads 4A, 4B in Fig. 1, 6, 7(a)-7(b) for details).

Regarding claims 19-25, see the rejections applied to claims 10-14 above.

Cited References

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited reference relates to a double-sided optical disc player having two different optical heads reading data from the disc.

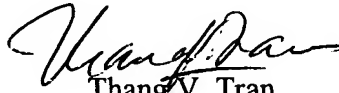
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bach Q. Vuong whose telephone number is (703) 305-7355. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BV
January 21, 2004


Thang V. Tran
Primary Patent Examiner